MODULAR COMPOSITION SYSTEM

COMPUGRAPHIC CORPORATION

MCS: The System that Grows into Your Future

The Compugraphic Modular Composition System (MCS™) is the fastest-selling typesetting system in the world. That's because it is designed to meet virtually all your composition needs—now and in the future. Quite simply, it is a system that meets your changing needs with its capacity to adapt to growth and changes in your business. With the MCS, Compugraphic brings high-quality, productive typesetting technology within reach of the low-volume user, yet it can grow to accommodate the largest, most sophisticated applications. *You* design the MCS system that suits *your* business requirements today and then modify it as you grow.

Modularity—both in hardware and supporting software—is the key to the system's adaptability. You can build *hundreds* of different configurations to meet small-, medium-, or large-system needs. As your business grows, you can upgrade your system's output, enhance its input, and add a wide range of state-of-the-art hardware and software options and enhancements.

The System's Range of Capabilities

When it comes to typographic capabilities, the powerful Modular Composition Systems can meet any of your composition needs, at a fraction of the cost of other systems. No matter which system you select, it will handle short or long text applications. And every system can provide quick turnaround and high-quality typography.

Your business may require a high-volume system, with many workstations and few options. Or, high quality requirements may dictate fewer workstations and many high-powered options. Or, as is the case with many users, you may require the full range of MCS capabilities for several operators.

No matter which system you buy, you'll get powerful editing and layout functions, dynamic text processing, and user-friendly hardware and software. Any MCS will make your operators more productive than you ever dreamed possible.

And regardless of which MCS you buy, you'll get outstanding kerning capabilities, superior type design, and a wide type selection from the company that sets the industry standards for composition quality.

Because the MCS is software-based and modular, you have endless opportunities to expand its hardware and software capabilities. Consult the Options section of this brochure for the productivity options that suit your composition needs best. And remember that with popular CP/M-86® software, you can use your input systems for general-purpose computing and take advantage of a whole range of software options that help speed up and refine your front-office business procedures.

To make your typesetting operation as smooth, professional, and cost-effective as possible, let your Compugraphic representative help you assemble a system that will grow into your future.

The Start-Up Systems

Among the thousands of MCS users worldwide are those whose typesetting operations are in the start-up phase. These Compugraphic customers frequently have one or two operators and hence require an MCS 5 or MCS 10 input system driving an MCS 8200 or MCS 8400 typesetter. The interactive PowerView system is also ideal for this environment.

Users who anticipate substantial growth may select an MCS 10 system, linked to an MCS 8400 digital typesetter. The MCS 10 gives them the option of an additional workstation and the flexibility to add more workstations and options. The MCS 8400 gives the user all the benefits of digital type technology—special typographic effects and extensive online font storage capability—at very low cost.

If your business requires a low-priced, entry level system with the capacity to grow and accommodate sophisticated Compugraphic options, ask your Compugraphic representative to outline an MCS for your applications.

MCS 8400

The Medium-Volume Systems

T ypical medium-volume MCS users have an MCS 10 input system driving an 8400 typesetter. They can then add two to four workstations on line to a central database. Or, they can add MCS 4, MCS 5, or PowerView terminals either off line or connected through a communications interface.

Medium-volume shops also need the greater online font capacity afforded by larger MCS configurations. The queueing features of the MCS permit the typesetter to do work while operators are not present or are working on other jobs. The popular Power Page software option is useful in these businesses because it simplifies page layout through automatic interactive or background pagination and powerful area composition capabilities.

Most importantly, the MCS lets these businesses grow, both in volume and sophistication, and guarantees state-of-the-art capability.

The High-Volume Systems

"U"sers of a high-volume system typically need a single database for many operators. The MCS 100 provides these users with a common database for as many as eight separate workstations and for up to sixteen workstations on line to a single typesetter.

Nevertheless, these users may still need the offline capabilities of the MCS 4 and MCS 5. Many large shops also use offline PowerView terminals for complex layout jobs.

The high-speed MCS 8600 typesetter, with its online capacity expanded to more than 250 typefaces and its resolution enhanced to 5,200 lines per inch, provides users with access to the outer limits of typographic technology.

With an MCS 100, larger shops can locate terminals in different offices, using 100-foot cables.

The power and flexibility of these large systems can be continually enhanced with new releases of hardware, software, and type from Compugraphic.

The MCS controllers are highly programmable microcomputers available at several levels of power and complexity. They automatically maintain and alphabetize an index of file names and offer remarkable merging and management capabilities.

The typographic refinement of Compugraphic systems is unmatched. With their unique capacity to accept additional input functions, increased storage, and greater output capability, these modular, software-based systems provide the flexibility for expanding operations.

The MCS 4 Input System

The MCS 4 is an inexpensive, offline terminal that can be used to write, edit, and keyboard text that will later be formatted for typesetting. This non-counting terminal stores unjustified copy on floppy disks.

The MCS 5 Input System

The MCS 5 is a desktop, state-of-the-art input system that can be used either as an online workstation to power an MCS typesetter or as a remote terminal for an MCS 10, MCS 100, or PowerView.

The MCS 10 Input System

The MCS 10 input system is the ideal choice for those who anticipate significant expansion into the broad range of MCS options. By increasing the memory of this input system you can expand your capacity to two workstations sharing the same database.

The MCS 100 Input System

This input system is the most powerful in the MCS family. Expanding the basic capabilities of this system lets you use up to eight terminals, all sharing the same database. Your operators can have access to all files in the system from any workstation, and the MCS 100 can perform most functions faster than any other input system in the MCS product line. This system's 100-foot cables allow you to position your terminals as much as 200 feet apart. And your operators can access two Previews and two online typesetters.

The MCS PowerView 10 Terminal

With its interactive, what-you-see-is-what-you-get screen, this latest addition to the MCS line of input systems lets you see coded text and a true representation of final output simultaneously. Now you can see text in position and in actual type size and style *as you keyboard.*

This powerful new input system lets you set difficult jobs on the first pass, since it virtually eliminates errors. And because it provides instant and continuous feedback, the PowerView is an excellent tool for training new MCS operators.

You can scroll copy both horizontally and vertically and, by simply selecting from an easy-to-use menu, you can reduce the size of the screen image to 25 percent of actual size or enlarge it to 200 percent.

The PowerView takes the guesswork out of typesetting complex brochures, forms, business cards, tables, multiple-column and multi-page jobs, and display ads.

There are three basic MCS typesetters—the MCS 8200 and the digital MCS 8400 and MCS 8600 typesetters—which vary in output speed and font capacity. All three offer superior image resolution, and they are supported by the company's library of over 1,500 available digitized typefaces.

The MCS 8200

The economical MCS 8200 typesetter is an ideal basic typesetter for text and display, perfectly suited to modest production requirements. It features an output speed of 30 newspaper lines per minute, the capability to do 14-inch reverse leading for multiple-column jobs, and 16 individual typestyles on line. The 8200 sets type sizes ranging from 5 to 72 points.

The MCS 8400

The MCS 8400 typesetter moves standard output speed up to 250 newspaper lines per minute—more than enough to meet most deadline pressures. The MCS 8400 High Speed Option lets you move output speed up to 325 newspaper lines per minute for more rapid turnaround. The 8400 sets type sizes ranging from 5 to 72 points in half-point increments and mixes any combination of 16 digitized typefaces. You can increase online capacity to 32 typefaces by adding a floppy disk drive, or you can move to a full 116 typefaces by adding a hard disk.

With the 8400 you also have the power to produce special effects like reversing, slanting, condensing, expanding, and "wrong reading." Useful for copyfitting and many display applications, these design variations can be produced with both text and display type.

The MCS 8600

The MCS 8600 typesetter is the top-of-the-line Compugraphic typesetter, extremely fast and very flexible. Outputting at 600 newspaper lines per minute, the standard 8600 comes with the capacity to store 100 digitized typefaces on line and can be upgraded to include 254 separate digitized typefaces. Type sizes range from 4 to 72 points in half-point increments, and sizes from 72½ to 127½ points are available in all caps. The 8600 will accept input, both justified and unjustified, from various input systems, including word and data processors. Like the 8400, the 8600 gives you special effects like slanting, expanding, condensing, reversing, and "wrong reading" of type images. And with the high resolution option, the 8600 delivers output resolution of 5,200 lines per inch.

Hardware and software options to support your MCS equipment are described in the following pages. Your Compugraphic representative will gladly provide further details.

Extra Workstations
Extra workstations let you increase your input to get more productivity from your database and output units. You can choose both online and offline terminals as extra workstations. Online workstations include MCS 100 terminals and MCS 10 terminals. Remote alternatives include the MCS 5 or MCS 4 units. You might also choose the MCS PowerView 10, which lets you see text in position and in actual size and style as you keyboard; the Compugraphic Personal Composition System,™ with its hand-held mouse and menu software for typestyle and graphic selection without coding; or various combinations of all these components.

Additional Floppy Disk Drives
Additional floppy disk drives give you increased storage capacity and greater flexibility in file management.

More Memory
More memory will let you accommodate additional hardware and software. MCS systems can have as much as 1 MB of system memory.

Hard Disk Storage
Hard disk storage can extend your fixed storage memory to 30 MB. Five MB of removable storage can also be added to the system to meet all your archival and backup needs.

Preview
Preview allows you to view a complete "soft copy" of a job before typesetting. By displaying a full-screen "snapshot" of the final text, the Preview lets you check the copy visually before directing the typesetter to produce output. The Preview's swiveling base makes it easy for more than one operator to share its benefits.

The Advanced Communications Interface
The Advanced Communications Interface (ACI) is a high productivity tool that enables your MCS typesetter to receive keystrokes over cable or regular telephone lines and to convert them directly to typesetting commands. ACI is compatible with virtually every commercially manufactured computer and word processor. The ACI can function in the background mode, receiving a job while your MCS continues its work. Because it eliminates rekeyboarding of your client's text, the ACI option saves you time and money. ACI Receive and Transmit, another data communications option, gives you two-way communication with other computers or between two MCS systems.
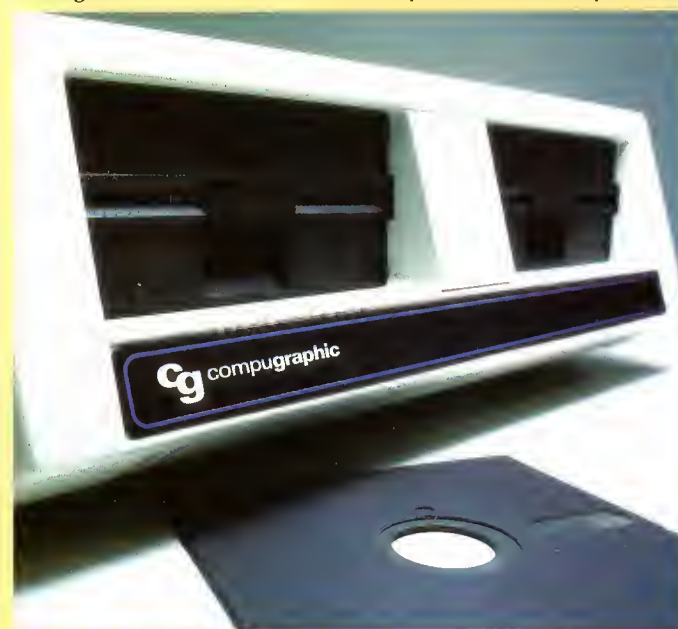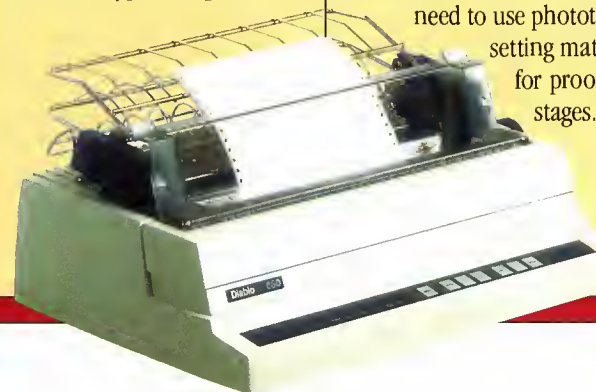
Dot Matrix Printer
The MCS Dot Matrix Printer prints text with or without typesetting codes to give you fast, inexpensive, plain-paper proofs of jobs before typesetting.

TextSaver
The TextSaver is a remarkable device that "reads" a typewritten page and instantly converts it into a file on your Compugraphic system. A desktop unit not much larger than a typewriter, the TextSaver can eliminate rekeyboarding by scanning up to 145 typewritten pages per hour. It reads any of eight commonly used typewriter and computer printer typestyles and converts the scanned information into ready-to-use MCS files.

Daisywheel Printer
The MCS Daisywheel Printer gives you plain-paper, correspondence-quality proofs—quickly, easily, and inexpensively. The printer outputs single- or double-spaced text in 12-point type, with or without your function codes. With this printer on your system, you eliminate the need to use phototypesetting materials for proofing stages.

Like MCS hardware, MCS software is modular so that you can build a system precisely suited to your needs. Included in the price of every new MCS is its basic operating software. This includes typesetter software as well as full capability for text entry and editing, file management, and composition. Every Compugraphic MCS configuration may be updated as enhancements are developed by the world's largest staff of typographic and composition software professionals.
The following software options are available for MCS users:

Automatic Ruling
With MCS automatic ruling software you can eliminate the frustration, cost, and clutter of hand-ruled forms. This optional software lets you set precision-ruled forms and other ruled jobs using simple commands to create boxes, matrices, combs, and vertical or horizontal rules.

Multiple Column Option
You can save time and money by setting multi-column work in fully laid-out pages before the job comes out of the typesetter. This option helps you to make full use of space on jobs like newsletters and magazines and eliminates extra paste-up and camera work.

Vertical Justification
You can achieve precise vertical positioning without paste-up using this software. It automatically calculates column depth and distributes white space above and below.

Power Page
This software lets you streamline the composition process by automating many layout and text processing functions. Power Page simplifies page make-up by allowing you to specify rectangular compartments of any size on the page and to fill them with text. Automatic interactive or background pagination gives you complete control over the paging process, including multiple column, vertical justification, background processing, and powerful formatting capabilities.

Designer Kerning
In addition to the standard sectored kerning available on most MCS systems, Designer Kerning is available for display applications. Designer Kerning automatically adjusts each and every character pair in each and every typeface according to standards established by professional designers. The program also lets you customize 128 character pairs to your own standards.

Hyphenation Aesthetics
This program will enable you to please the most typographically demanding client by letting you establish your own hyphenation standards. An Exception Word Dictionary allows you to store a 5,000-word glossary of your own exceptions to standard word hyphenations for each job.

Multiple Language Hyphenation
You can instantly call up to four different optional language hyphenation programs to the system's memory with this program. Available languages include English, French, German, Italian, Portuguese, and Spanish.

Multiple Search and Translate
This exclusive Compugraphic option will find and automatically replace 150 strings of up to 256 characters in length. Particularly in applications like proposals and contracts, where there is a good deal of boilerplate, this feature gives you exceptional flexibility for modifications.

Reverse Video
With this option, your 8400 or 8600 typesetter gives you white type on black background, eliminating the need for an intermediate camera step to reverse the type.

Low-Speed Wire Package
This option allows you to strip out wire service codes so that operators can call wire service copy to the MCS screen for editing or reformatting.

Classified Ad Package
This option consolidates classified ad billing and typesetting information into a single file, sorting costs by line, word, or character. It generates reports and bills and eliminates the need to calculate prices manually.

Business Software
These powerful programs give your MCS general computing capabilities. They all operate on the popular CP/M-86 ® microcomputer control program, as adapted by Compugraphic for use in the MCS. Once programmed with CP/M-86, your MCS will accept the MailMerge ® program for creating individualized form letters, SuperSort I ® for manipulating lists such as your customer account files, Accounts Receivable for tracking balances due and producing invoices, Accounts Payable for automated bookkeeping and for tracking vendor accounts, ProfitPlan™ to forecast cost, sales, and cash flow, MicroPlan ® for specialized financial forecasting, Print Estimating for generating itemized cost estimates for any printing job, Type Estimating for generating accurate cost and time estimates for any typesetting job, Type Specifying for custom copyfitting, and Printer's Price List for automatic calculation of pricing.

CP/M-86 software also lets your MCS operate the Star Programs, including the WordStar ® word-processing program, SpellStar, ® a 20,000-word, modifiable dictionary, and StarIndex,™ which generates alphabetical indexes of items that you designate in your text. The great popularity of CP/M software among general-purpose software manufacturers assures you of the availability of a steady stream of new CP/M-compatible programs.

Compugraphic—Customer Support: Industry Leadership

The high Compugraphic quality standards for design and manufacturing are reflected in Compugraphic systems. To remain the world leader in graphic communication, Compugraphic has placed heavy emphasis on quality, research and development, and customer support. Compugraphic customers are assured of state-of-the-art improvements in speed, sophistication, and range of application. Complementing the MCS and other Compugraphic equipment is the most complete and comprehensive line of accessories in the industry.

Educational Services

The Educational Services Department is dedicated to operator training, from the most basic to the most advanced levels. Compugraphic training centers in all major metropolitan areas throughout the United States provide specific, hands-on instruction in job-related tasks and follow-up telephone consultation as needed.

Customer Service

Expert customer service is readily available from highly trained service engineers and field support specialists nationwide.

The Communications Assistance Center

The innovative Communications Assistance Center employs highly trained communications specialists to provide advice and support to our customers who interface word processors, computers and OCR scanners with Compugraphic phototypesetting systems. Telephone consultations are supplemented, as needed, by remote testing and diagnostics done with telephone modems.

The Software Support Center

The Software Support Center provides MCS applications assistance through a toll-free number for customers under contract. The center's staff is composed of highly qualified people who are knowledgeable about MCS programming, applications and hardware.

Typographic Development

Compugraphic sets the world standard in the design and development of typefaces. The Compugraphic library of more than 1,500 typefaces is the industry's largest and most comprehensive. The company's highly skilled design staff adds more typefaces every year, enabling its customers to take full advantage of today's sophisticated typographic developments.

Contact your Compugraphic sales representative today for more information about the Modular Composition Systems and the company customer support that has made these typesetting systems the most popular in the world.